PDR RID Report

Date Last Modified 6/20/95

Originator Greg Hunolt

Organization ESDIS 505

Phone No 301-286-0653

E Mail Address gregh@ulabsgi.gsfc.nasa.gov

Document User Model

Section	Page	Figure Table

Category Name User & Algorithm Models

Sub Category

Subject User Model neglects DAO Level 4 product pull

Actionee HAIS

Description of Problem or Suggestion:

User demand for Level 4 data assimilation products may be a significant load on the system. Although one scenario involved DAO products, there was no indication that the model outputs (e.g., chart AE-11) included Level 4 product pull. Model "boundary conditions" (chart AE-5) exclude Level 4 data.

Originator's Recommendation

By Release B IDR, work with the DAO to assess current use of data assimilation products, with DAO and the GSFC DAAC and the Ad Hoc Working Group on Black Death (i.e., Consumption) to project potential future use by EOS IDS teams and other users, and work within the Ad Hoc Working Group on Production to project pull demand for DAO Level 4 products by EOS instrument teams.

GSFC Response by:

GSFC Response Date

HAIS Response by: Eisenstein

HAIS Schedule 5/22/95

HAIS R. E. A. Endal

HAIS Response Date 6/5/95

Though four science user scenarios involve pull on DAO products, pull at the individual product level was not included in the PDR model analysis. User classes represented by the scenarios were meant to represent the way users interact with the system, not the products they select. For instance, we could anticipate 500 users might access the system in a way similar to the sequence described in the scenario, but we would not expect them to order the same products described. For this reason, scenarios were used to describe access patterns, and product pull was estimated using discipline related demand.

We agree with the recomendation that DAO products need to be explicitly included in both the push and pull side of the ECS model for the Release B IDR. On the push side, we have been working with DAO staff to get their file and processing descriptions into the AHWGP format so that we can include this in the performance model. We have also received information from the EOS instrument teams regarding their intended use of DAO products in their processing. Thus, the DAO will be incorporated in the push model on the same basis as the EOS instruments.

On the pull side, ECS is now focusing on product specific models. Three current efforts address demand on the DAO and other EOS products. As part of ongoing work, ECS is collecting and analyzing V0 and data center statistics on pull at the product level. DAO product usage is included in GSFC DAAC estimates collected and analyzed by ECS, and ECS is working directly with the DAO to assess more specific product usage. In addition, ECS released an EOSDIS Product Use Survey to assess relative interest in ECS distributed products which included DAO products. Finally, as part of the AHWGC, ECS is asking IDS teams to specify their data needs which include DAO products.

Status **Closed**   **Date Closed** **6/20/95**   **Sponsor** **Daly**

****** **Attachment if any** ******